Notice of Allowability	Application No.	Applicant(s)
	10/659,757	ACHARYA ET AL.
	Examiner	Art Unit
	Kenneth Tang	2195
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this appler or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. X This communication is responsive to 11/9/05.		
2. \boxtimes The allowed claim(s) is/are <u>1-26</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN 	e been received. e been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF stion is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	·	
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	the header according to 37 CFR 1.121(d).
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☑ Interview Summary Paper No./Mail Da 7. ☑ Examiner's Amendr 8. ☐ Examiner's Stateme	te <u>1/9/05</u> .
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Robert W. Griffith (Reg. 48,956) on 1/9/05.
- 3. Please replace claims 1, 5, 6, 7, 25, and 26 as shown below:
- 1. A method for scheduling responses in a point-to-point communication system having k channels, the method comprising the steps of:

receiving at a central server a plurality of job requests;

determining an adaptive schedule for transmitting, via said k channels, data responsive to said job requests, wherein the servicing of a first job request via a first channel is interrupted, an unserviced portion of said data is returned from a local channel server to said central server, and said unserviced portion is subsequently serviced via a second channel so as to service a second job request via said first channel in accordance with an updated schedule; and

calculating a deadline for each of said plurality of job requests, wherein each such deadline is calculated based on a processing time corresponding to each said job request, a stretch value

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corresponding to the processing time, and an arrival time corresponding to each said job request, wherein said schedule for processing said job requests is adaptively determined such that each said job request is serviced via said channels within said deadline corresponding to each said job request.

- 5. The method of claim 1,-wherein, in the step of calculating a deadline, the deadline, D_i , for each of said plurality of job requests is given by $D_i = S \times P_i + A_i$,-where P_i is a processing time corresponding to each said job request, A_i is an arrival time corresponding to each said job request, and S is a stretch value.
- 6. The method of claim 1, wherein said processing time further comprises a value corresponding to the size of each said job request divided by a channel bandwidth.
 - 7. The method of claim 1, further comprising the step of proposing said stretch value.
- 25. An apparatus for use in scheduling responses in a point-to-point communication system having k channels, the apparatus comprising:

a central server configured: (i) to receive a plurality of job requests; (ii) to determine an adaptive schedule for transmitting, via said k channels, data responsive to said job requests,

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wherein the servicing of a first job request via a first channel is interrupted, an unserviced portion of said data is returned from a local channel server to said central server, and said unserviced portion is subsequently serviced via a second channel so as to service a second job request via said first channel in accordance with an updated schedule; and (iii) to calculate a deadline for each of said plurality of job requests, wherein each such deadline is calculated based on a processing time corresponding to each said job request, a stretch value corresponding to the processing time, and an arrival time corresponding to each said job request, wherein said schedule for processing said job requests is adaptively determined such that each said job request is serviced via said channels within said deadline corresponding to each said job request.

26. An article of manufacture for storing one or more software programs for use in a central server for scheduling responses in a point-to-point communication system having k channels, wherein the one or more programs when executed implement the–steps of:

determining an adaptive schedule for transmitting, via said k channels, data responsive to received job requests, wherein the servicing of a first job request via a first channel is interrupted, an unserviced portion of said data is returned from a local channel server to said central server, and said unserviced portion is subsequently serviced via a second channel so as to service a second job request via said first channel in accordance with an updated schedule; and

calculating a deadline for each of said plurality of job requests, wherein each such deadline is calculated based on a processing time corresponding to each said job request, a stretch value corresponding to the processing time, and an arrival time corresponding to each said job request,

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wherein said schedule for processing said job requests is adaptively determined such that each said job request is serviced via said channels within said deadline corresponding to each said job request.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (571) 272-3772. The examiner can normally be reached on 8:30AM - 6:00PM, Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kt . 1/9/05